FORM PTO-1449 (M diffed)

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ATTY. DOCKET NO. TH1647 04 (US) APPLICATION NUMBER

APPLICANT

C. L. Edwards et al.

FILING DATE

**GROUP ART UNIT** 

	Document No.	Date	ATENT DOCUMENTS Patentee	Class	Subclass		ig Dat priat
AA	3,676,523	7/11/72	Mason	260	683.15D		
AB	3,686,351	8/22/72	Mason	260	683.15D		
AC	3,737,475	6/5/73	Mason	260	683.15D		
AD	3,825,615	7/23/74	Lutz	260	683.15D		
AE	4,020,121	4/26/77	Kister et al.	260	683.15D		
AF	4,021,447	5/3/77	Rubin et al.	260	326.8		
AG	3,702,886	11/14/72	Argauer et al.	423	328		
AH	3,709,979	1/9/73	Chu	423	328		
Al	3,832,449	8/27/74	Rubin et al.				
A Service		FOREIGN	PATENT DOCUMENTS:	1. 0 Says 46			en.
/	Document No.	Date	Country	Class	Subclass	Transla Yes	tion No
AL	WO 94/05761	3/17/94	World	C11D	3/10		
AM	1,429,143	3/24/76	Great Britain	C11D	10/02		
AN	WO 99/42553	8/26/99	World	C11D	3/43		
AO	0,884,298 A2	12/16/98	Europe	C07C	43/10	Х	
	THER DOCUME	NTS (INCLUDING)	AUTHOR, TITLE DATE, PERTI	NENT PAGES, E	(C) 4 (D) 4	1	
AR			nd Technology," pp. 82-8	5, VCH Publisl	hers, Inc. (Ne	w York, I	VY,
AS				in collaboratio	n with Paul B	echer, pu	ublish
AT				f Anionic-Activ	e Detergents	by Two-	Phas
	AB AC AD AE AF AG AH AI AN AN AO AR	AA 3,676,523  AB 3,686,351  AC 3,737,475  AD 3,825,615  AE 4,020,121  AF 4,021,447  AG 3,702,886  AH 3,709,979  AI 3,832,449  Document No.  AL WO 94/05761  AM 1,429,143  AN WO 99/42553  AO 0,884,298 A2  Myers, Drew, "Surfa USA) 1988 (ISBN 0  K. Shinoda, "Princip by Mercel Dekker, Infection of the company	AA 3,676,523 7/11/72  AB 3,686,351 8/22/72  AC 3,737,475 6/5/73  AD 3,825,615 7/23/74  AE 4,020,121 4/26/77  AF 4,021,447 5/3/77  AG 3,702,886 11/14/72  AH 3,709,979 1/9/73  AI 3,832,449 8/27/74  Document No. Date  AL WO 94/05761 3/17/94  AM 1,429,143 3/24/76  AN WO 99/42553 8/26/99  AO 0,884,298 A2 12/16/98  Wyers, Drew, "Surfactant Science a USA) 1988 (ISBN 0-89573-399-0)  K. Shinoda, "Principles of Solution a by Mercel Dekker, Inc. 1978, pp. 29  Reid, V.W., G.F. Longman and E. F.	AA 3,676,523 7/11/72 Mason  AB 3,686,351 8/22/72 Mason  AC 3,737,475 6/5/73 Mason  AD 3,825,615 7/23/74 Lutz  AE 4,020,121 4/26/77 Kister et al.  AF 4,021,447 5/3/77 Rubin et al.  AG 3,702,886 11/14/72 Argauer et al.  AH 3,709,979 1/9/73 Chu  AI 3,832,449 8/27/74 Rubin et al.  FOREIGNIPATENTIDOCUMENTS:  Document No. Date Country  AL WO 94/05761 3/17/94 World  AM 1,429,143 3/24/76 Great Britain  AN WO 99/42553 8/26/99 World  AO 0,884,298 A2 12/16/98 Europe  OTHER POCUMENTS (INCRUDING AUTHOR, TIQUE, DATE, PERTITAL ARRAY ARRA	AA 3,676,523 7/11/72 Mason 260  AB 3,686,351 8/22/72 Mason 260  AC 3,737,475 6/5/73 Mason 260  AD 3,825,615 7/23/74 Lutz 260  AE 4,020,121 4/26/77 Kister et al. 260  AF 4,021,447 5/3/77 Rubin et al. 260  AG 3,702,886 11/14/72 Argauer et al. 423  AH 3,709,979 1/9/73 Chu 423  AI 3,832,449 8/27/74 Rubin et al. 560  AL WO 94/05761 3/17/94 World C11D  AM 1,429,143 3/24/76 Great Britain C11D  AN WO 99/42553 8/26/99 World C11D  AO 0,884,298 A2 12/16/98 Europe C07C  Myers, Drew, "Surfactant Science and Technology," pp. 82-85, VCH Publist USA) 1988 (ISBN 0-89573-399-0)  K. Shinoda, "Principles of Solution and Solubility," translation in collaboration by Mercel Dekker, Inc. 1978, pp. 292-304  Reid, V.W., G.F. Longman and E. Heinerth, "Determination of Anionic-Active Reid, V.W., G.F. Longman and E. Heinerth, "Determination of Anionic-Active Reid, V.W., G.F. Longman and E. Heinerth, "Determination of Anionic-Active Reid, V.W., G.F. Longman and E. Heinerth, "Determination of Anionic-Active Reid Principles of Solution and Solubility," translation in collaboration by Mercel Dekker, Inc. 1978, pp. 292-304	AA 3,676,523 7/11/72 Mason 260 683.15D  AB 3,686,351 8/22/72 Mason 260 683.15D  AC 3,737,475 6/5/73 Mason 260 683.15D  AD 3,825,615 7/23/74 Lutz 260 683.15D  AE 4,020,121 4/26/77 Kister et al. 260 683.15D  AF 4,021,447 5/3/77 Rubin et al. 260 326.8  AG 3,702,886 11/14/72 Argauer et al. 423 328  AH 3,709,979 1/9/73 Chu 423 328  AH 3,832,449 8/27/74 Rubin et al.  FOREIGN/PATENT/DOCUMENTS  AL WO 94/05761 3/17/94 World C11D 3/10  AM 1,429,143 3/24/76 Great Britain C11D 10/02  AN WO 99/42553 8/26/99 World C11D 3/43  AO 0,884,298 A2 12/16/98 Europe C07C 43/10  AN WO 99/42553 8/26/99 Europe C07C 43/10  AN WOS, Drew, "Surfactant Science and Technology," pp. 82-85, VCH Publishers, Inc. (Ne USA) 1988 (ISBN 0-89573-399-0)  K. Shinoda, "Principles of Solution and Solubility," translation in collaboration with Paul B by Mercel Dekker, Inc. 1978, pp. 292-304	Document No.   Date   Patentee   Class   Subclass   If Approved AA   3,676,523   7/11/72   Mason   260   683.15D

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 This is not a representation that a search has been made.

FORM PTO-1449 (Modified)				ATTY. DOCKET NO. TH1647 04 (US)	R				
LIS	ST OF I	NFORMATION PROVI	IDED	APPLICANT C. L. Edwards et al.					
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REFERENCE	ESIGNA	TION	USIPA	TENT DOCUMENTS (*					
Examin r Initial		Document Number	Date	Patente <del>e</del>	Class	Subclass	Filing if Appropi		
T.M.	ВА	4,482,531	11/13/84	Kuehl	423	329			
THU.	BB	3,950,496	4/13/76	Ciric	423	328			
MM	ВС	3,972,983	8/3/76	Ciric	423	328			
YAM	BD	4,046,859	9/6/77	Plank et al.	423	328			
	BE	4,247,416	1/27/81	Doherty et al.	252	428		···	
Mah	BF	4,086,186	4/25/78	Rubin et al.	252	430		- · · · · · · · · · · · · · · · · · · ·	
	BG	4,046,859	9/6/77	Plank et al.	423	328			
Phi	вн	4,287,166	9/1/81	Dwyer et al.	423	325			
	ВІ	4,247,728	1/27/81	Rubin et al.	585	467			
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70/	BL	Document Number 06073045					Translati		
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FORM PTO-1449 (M diffied)  LIST OF INFORMATION PROVIDED  BY APPLICANT				ATTY. DOCKET NO. TH1647 04 (US)  APPLICANT C. L. Edwards et al.					
REFERENCE	ESIGNA	TION THE PARTY OF	U.S. PA	TENT DOCUMENTS ! LE LA	Adding St		444484		
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Da if Appropriat		
Ju.	CA	4,495,303	1/22/85	Kuehl	502	62		_	
4)(	СВ	4,397,827	8/9/83	Chu	423	326			
M,	CC	4,640,829	2/3/87	Rubin	423	328			
M.	ÇD	4,568,654	2/4/86	Valyocsik	502	62			
	CE	4,698,217	10/6/87	Valyocsik	423	328C			
Obl.	CF	4,647,442	3/3/87	Derouane et al.	423	306			
	CG	4,619,818	10/28/86	Derogane et al.	423	306			
	СН	4,954,325	9/4/90	Rubin et al.	423	328			
V	CI	5,236,575	8/17/93	Bennett et al.	208	46			
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	CR	Roger Hunter et al., "	Allylation Using	Allylborates," TETRAHEDF	RON, Vol. 50	0, No. 3, 1994	4, pp. 871-88	8	
$\overline{\mathcal{M}}$	cs			ctivated Ketal Reduction W No. 24, 1993, pp. 6756-67		Dimethyl Sulf	ide," JOURN	AL	

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T. Hosokawa et al., "Palladium (II)-Catalyzed Acetalization of Terminal Olefins Bearning Electron-Withdrawing Substituents With Optically Active Diols," JOURNAL OF ORGANIC CHEMISTRY, Vol. 52,

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1987, pp. 1958-1764

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Examiner Initial		Document Number	Date	Patentee	Class	Subclass		g Date	
M	DA	3,308,069	3/7/67	Wadlinger et al.	252	455			
	DB	Re. 28,341	2/18/75	Wadlinger, et al.	208	120			
01/9	DC	3,058,805	10/16/62	Weber	23	113			
9M	DD	3,130,007	4/21/64	Breck	23	113	<del> </del>		
dy	DE	3,996,337	12/7/76	Stabenow et al.	423	328	<del> </del>		
	DF	4,440,871	4/3/84	Lok et al.	502	214			
M	DG	5,059,567	10/22/91	Linsten et al.	502	64	<u> </u>		
	DH	3,462,525	8/19/69	Levinsky	424	56			
77	DI	3,428,654	2/18/69	Rubinfeld et al.	260	327			
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REFERENCE D	ESIGNA	TION A	;;; ₹ U.S. P.	ATENT DOCUMENTS	National	in 1999年4月17			
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V	EA	3,420,875	1/7/69	Di Salvo et al.	260	513			
100	EΒ	3,506,580	4/14/70	Rubinfeld et al.	252	138			
adl	EC	3,579,537	5/18/71	Rubinfeld et al.	260	327			
am	ED	3,524,864	8/18/70	Rubinfeld et al.	260	327			
	EE	5,057,627	10/15/91	Edwards	568	618			
M	EF	6,087,311	7/11/00	Van Dijk	510	294			
GM	EG	6,083,893	7/4/00	Zint et al.	510	221			
(Sal	EH	6,159,920	12/12/00	Ridyard	510	324			
	El	6,153,574	11/28/00	Janssen	510	224			
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Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filir if Appro	ng Date priate	
gen	FA	2,778,855	1/22/57	Shokal et al.	260	613			
BU	FB	4,503,275	3/5/85	Harris et al.	568	866			
7	FC	4,317,938	3/2/82	Lutz	568	619			
Y//V	FD	4,721,816	1/26/88	Edwards	568	618			
m	FE	4,721,817	1/26/88	Edwards	518	618	<b> </b>		
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